

What is claimed is:

1. A magnetron comprising a choke coil connected between a cathode terminal and a capacitor, and cooperating with said capacitor to form an LC filter circuit,

5 wherein said choke coil includes first and second core type inductors having respectively bar-like high-frequency absorbing members located within windings thereof, an air-core inductor not having a high-frequency absorbing member and connected to said cathode terminal;

10 said first core type inductor, said second core type inductor and said air-core inductor are connected in series, and

said first core type inductor and said second core type inductor are arranged via a gap having a width within
15 1mm to 6mm.

2. A magnetron according to Claim 1, wherein frequency characteristics of said high-frequency absorbing members of said first and second core type inductors are different from
20 each other.

3. A magnetron according to Claim 1, wherein one of said first and second core type inductors is formed with a high-density wound type choke coil, and the other is formed with a low-density
25 wound type choke coil.

4. A magnetron according to Claim 1, wherein lengths of said first and second core type inductors are different from each other.

5 5. A magnetron according to Claim 1, wherein said high-frequency absorbing members located within said windings of said first and second core type inductors are connected via an insulating material located on a position corresponding to said gap presented between said first and the second core
10 type inductors.

6. A magnetron according to Claim 5, wherein said insulating material is made of a silicone rubber based material.

15 7. A magnetron according to Claim 1, wherein said high-frequency absorbing members of said first and second core type inductors are fixed within said windings of the first and second core type inductors by fixing means made of a silicone rubber based adhesive.

20 8. A choke coil, for being connected between a cathode terminal and a capacitor, and cooperating with said capacitor to form an LC filter circuit of a magnetron, comprising;
first and second core type inductors having respectively
25 bar-like high-frequency absorbing members located within windings thereof, and

an air-core inductor not having a high-frequency absorbing member and connected to said cathode terminal,

wherein said first core type inductor, said second core type inductor and said air-core inductor are connected
5 in series, and

said first core type inductor and said second core type inductor are connected via a gap having a width within 1mm to 6mm.

10